Bachelor of Arts in Chemistry

The B.A. degree provides a solid foundation in chemistry so students have the same career options as those with the B.S. degree, while allowing students the flexibility to pursue other academic interests. All courses in the major core, major electives, and supporting courses must be taken in the traditional grading mode (A-F). It is highly recommended that students perform undergraduate research with a faculty member.

Please see the current approved curriculum on the SSU official catalog web page.

Major Core Requirements	**Units**	**Completed**	**To do (Semester)**
CHEM 115AB, General Chemistry	4	☐	_____
(10 units, 4 in the major core, 6 in general education (GE B1 & B3)			
CHEM 255, Quantitative Analysis	4	☐	_____
CHEM 310AB, Physical Chemistry	6	☐	_____
CHEM 316, Physical Chemistry Laboratory	2	☐	_____
CHEM 325, Inorganic Chemistry	3	☐	_____
CHEM 335AB, Organic Chemistry	8	☐	_____
CHEM 401, Chemical Synthesis and Characterization I	3	☐	_____
CHEM 497, Research Seminar	1	☐	_____
Elective (upper-division chemistry)	1	☐	_____
Total units in the major core	32		

Supporting Courses

MATH 161, Calculus I	1	☐	_____
(4 units, 1 in the major core, 3 in general education (GE B4)			
MATH 211, Calculus II	4	☐	_____
PHYS 114 or 210A Physics I	3-4	☐	_____
PHYS 116 or 209A Physics Laboratory I	1	☐	_____
PHYS 214 or 210B Physics II	3-4	☐	_____
PHYS 216 or 209B Physics Laboratory II	1	☐	_____
Total units in supporting courses	13-15		

GE Courses

CHEM 115AB	6
MATH 161	3
Others	42
Total units in GE courses	**51**

Electives 22-24

Total units to graduate **120**

Recommended courses

CHEM 494, Undergraduate Research

Freshman Year:

Fall semester (15 units)	*Spring semester (15 units)*
CHEM 115A (5)	CHEM 115B (5)
MATH 161 (4)	MATH 211 (4)
GE (3)	GE (3)
GE (3)	GE (3)

Sophomore Year:

Fall semester (15 units)	*Spring semester (15 units)*
CHEM 335A (5)	CHEM 335B (3)
PHYS 210A (3) or PHYS 114 (4)	CHEM 336 (2)
PHYS 209A (1) or PHYS 116 (1)	PHYS 210B (3) or PHYS 214 (4)
GE (3)	PHYS 209B (1) or PHYS 216 (1)
GE (3)	GE (3)
	Elective (1 or 3)

Junior Year:

Fall semester (16 units)	*Spring semester (14 units)*
CHEM 255 (4)	CHEM 310B (3)
CHEM 310A (3)	CHEM 316 (2)
GE (3)	GE (3)
GE (3)	GE (3)
Elective (3)	GE (3)

Senior Year:

Fall semester (14 units)	*Spring semester (16 units)*
CHEM 401 (3)	CHEM 497 (1)
CHEM 494 (1)	CHEM 325 (3)
GE (3)	Elective (3)
GE (3)	Elective (3)
Chemistry Elective (1)	Elective (3)
Elective (3)	Elective (3)

Total semester units: 120

CHEM 336 (2 unit) and CHEM 494 (1 unit) are used as chemistry elective units.